### CLASSIFICATION CIA-RDP82-00457R001801050010-45X1A Approved For Release 2001/03/ PEPORT NO

COUNTRY Germany (Russian Zone)

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SUBJECT.

Details of Radios and Oscillographs Wade et Mektro-Beu Sondershausen

NO. OF PAGES

ACQUIRED

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- The agencies listed below, as well as foreign firms, placed large orders at the 1.. Leipzig Fair for the radios and oscillographs manufactured at Elektro- Bau Sondershausen.
  - Ministerium fuer Kraftwerke der U'SSR (Wiss-Technisches Fuero 3) Perlin/Rummelsburg
  - Wiss-Technischenbteilung fuer Nachrichtenwesen, Berlin 0 112
  - Jordan, Popoff, Ferlin/Tilrersdorf, Export for Fulgaria
- Following are details of the radios and oscillographs made at the Elektro-Bau 2.

### a) Two-ray Oscillograph

The two-ray oscillograph is equipped with a two-ray tube with a screen of 10 cm. diameter. For each unit there is a built-in amplifier. Time and measuring deflection plates are accessible separately through switch boxes which can also switch off the amplifier and the "KippgerAt".

Likewise the grids of both units are accessible separately over outside connections for regulation of light and dark. Brightness of the rays and clearness are separately adjustable for each unit. Herizontal and vertical adjustment is possible for each system in the same manner. Possible differences in the sensitivity of the separate systems or in changing tubes can be equalized by means of a potentiometer accessible from the front plate. All required voltages are supplied by the builtin line transformer.

## Technical Data:

ASG-Two-ray tubes IR 2/100 n. 10 cm. screen diameter Amplifier: single stage NF 14

15 IIz

lower cut off frequency unner cut off frequency

20 k Hz

degree of amplification

100 continuously adjustable

entrance 250 kilo Ohm and 2 x.l µf in series

red ich boxes not grounded

"Kippgerët" RV 12 P2000 and S 1/0.2 (AEC 200 pieces)

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frequency range 10 - 25000 Pa in 7 large 100 Page 100 Pag precision regulation with potentiometer. amplitude adjustable from 35 - 100 mm.

Synchronization

from outside can be switched on from amplifier I ) and off by a rotary

from amplifier II) switch

Deflection sensitivity: without amplifier .25 mm/V with 25 mm/V

Built-in line transformer: 90/110/125/220 V 50 cycles

Two-circuit TRF receivers for alternating current with the performance of a superb) heterodyne,

Type of current: alternating current 110/220 V Power consumption at 220 V: approximately 45 W Wave range:

15 -- 50 m. short 188 - 600 m. middle 720 - 2000 m. long

Sensitivity 200 µ V ) 40 µ V ) at 50 mm 40 µ V ) power output

Tubes used: 2 x RV 12P 2000 on EF 12, EL-11, AZ 11 Scale lamps:  $2 \times 6$ , 3 V/0.3 ARegulation of sound intensity: low frequency Tone diaphragm: constantly adjustable Loud-speaker: full dyn. 4 W Diaphragm diameter: 170 mm Pick-up connection

Connection for 2nd loud-speaker

Casing: plywood, walnut with maple and birch

Dimensions: Width 500 mm. Height 370 mm. Depth 250 mm.

c) Four-tube - six-circuit - superheterodyne for alternating current.

Type of current: alternating current 110/125/220V. constant Power consumption at 220 V: approximately 50 W. Wave range:

Sensitivity 15 - 51 short 50 ju V) 195 - 600 m. middle 20 'µ V) at 50 mW 700 - 2000 m. long 20 µ V) power output

Tubes used: ACH 1, AF 3, AF 7, AL 4, AZ 11 Scale hamps:  $2 \times 4 \text{ V/.3 A}$ 

Amount of circuits: 6; two are tunable; four are constant

Diode rectification

Regulation of sound intensity: low frequency

Tone diaphragm: constantly adjustable

Intermediate frequency: 468 klik

Automatic volume control: acting on 2 tubes

Intermediate frequency block cirucit: built-in

Loud-speaker: full dyn. 4 W

Diaphrapm diameter: 200 mm.

Pick-up connection

Connection for 2nd loud-speaker

Casing: Plywood, walnut and birch

Dimensions: Width 520 mm

Height 370 mm

Depth 260 mm CONFIDENTIAL